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Records for: **pn=jp 11228655**

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☐ 1. 26/34/1 (Item 1 from file: 351)

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WPI Acc No: 1999-522740/199944

**Polyurethane group emulsion for aqueous printing ink - has specific minimum film forming temperature**

Patent Assignee: NIPPON POLYURETHANE KOGYO KK (NIPO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11228655	A	19990824	JP 9852742	A	19980218	199944 B

Priority Applications (No Type Date): JP 9852742 A 19980218

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11228655	A		9	C08G-018/00	

Abstract (Basic): JP 11228655 A

NOVELTY - The emulsion is obtained by reacting compound containing polyol (A), chain extension agent (B), carboxy and active hydrogen group having number average molecular weight of 500-10,000 (C), organic polyisocyanate (D) and neutralizing agent (E). The minimum film forming temperature of the emulsion is 35 deg. C or less.

USE - For aqueous printing ink (claimed).

ADVANTAGE - The polyurethane group emulsion excels in adhesion property and printability. The operativity of aqueous ink is improved.

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Derwent Class: A25; A97; G02

International Patent Class (Main): C08G-018/00

International Patent Class (Additional): C08L-075/04; C09D-011/02; C09D-175/04

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□ 2.

**26/34/2 (Item 2 from file: 347)****06287064 POLYURETHANE-BASED EMULSION FOR WATER-BASED  
PRINTING INK AND WATER-BASED PRINTING INK USING THE SAME****Pub. No.:** 11-228655 A ]**Published:** August 24, 1999 (19990824)**Inventor:** MORISHIMA TAKESHI

YAMAZAKI SUMIICHI

MURAKAMI SHUNSUKE

SASAHARA TOSHIAKI

KONISHI SHIN

**Applicant:** NIPPON POLYURETHANE IND CO LTD**Application No.:** 10-052742 [JP 9852742]**Filed:** February 18, 1998 (19980218)**International Class:** C08G-018/00; C08L-075/04; C09D-011/02**ABSTRACT**

**PROBLEM TO BE SOLVED:** To obtain the subject emulsion used in a vehicle of a water-based printing ink excellent in adhesion and printability by composing the emulsion of an aqueous emulsion of a specific polyurethane-based polymer having a specified minimum film-forming temperature.

**SOLUTION:** This emulsion is obtained by composing the emulsion of an aqueous emulsion of a polyurethane-based polymer prepared by reacting (A) a polyol having 50-10,000, preferably 1,000-5,000 number-average molecular weight and preferably 2-4 average number of functional groups of the polyol (e.g. a polycarbonate polyol) with (B) a chain extender which is preferably a 2-15C aliphatic polyol, a 2-15C aliphatic polyamine, etc., (e.g. monoethanolamine), (C) a compound having carboxyl group and an active hydrogen group (e.g. dimethylolpropionic acid), (D) an organic polyisocyanate (e.g. diphenylmethane diisocyanate) and (E) a neutralizing agent (e.g. triethylamine) and having <35°C minimum film-forming temperature.

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☐ 3.

26/34/3 (Item 3 from file: 345)

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Basic Patent (No,Kind,Date): JP 11228655 A2 19990824

## PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 11228655 A2 19990824

POLYURETHANE-BASED EMULSION FOR WATER-BASED PRINTING INK AND  
WATER-BASED PRINTING INK USING THE SAME (English)

Patent Assignee: NIPPON POLYURETHANE KOGYO KK

Author (Inventor): MORISHIMA TAKESHI; YAMAZAKI SUMIICHI; MURAKAMI  
SHUNSUKE; SASAHARA TOSHIAKI; KONISHI SHIN

Priority (No,Kind,Date): JP 9852742 A 19980218

Applic (No,Kind,Date): JP 9852742 A 19980218

IPC: \* C08G-018/00; C08L-075/04; C09D-011/02; C09D-175/04

CA Abstract No: \* 131(13)171662V; 131(13)171662V

Derwent WPI Acc No: \* C 99-522740; C 99-522740

Language of Document: Japanese

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